

# VSAM COBOL Programming

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<b>Duration</b>	2 days.
<b>Participants</b>	Application developers.
<b>Objectives</b>	Upon successful completion of this course, you will be able to: <ul style="list-style-type: none"><li>• Write COBOL programs that access and update KSDS, ESDS, and RRDS VSAM files using sequential, dynamic, and random access techniques.</li></ul>
<b>Overview</b>	Participants learn to access and update VSAM files from batch COBOL programs. Processing includes reading, updating, and where permitted, deleting records from KSDS, ESDS, and RRDS VSAM files.
<b>Format</b>	Instructor-led and extensive hands-on computer workshops.
<b>Prerequisites</b>	Ability to code basic JCL, use the edit and submit features of TSO/ ISPF and code basic IDCAMS control statements to create and manage VSAM files.
<b>Related Courses</b>	After completing this course, consider attending: <ul style="list-style-type: none"><li>• VSAM/ IDCAMS Utility</li><li>• VSAM KSDS Performance and Tuning</li><li>• VSAM CICS COBOL Programming</li><li>• File-AID for VSAM</li></ul>
<b>Topic Outline</b>	<b>COBOL View of VSAM</b> Contrast KSDS, ESDS, and RRDS Usage in COBOL Programs  <b>COBOL SELECT Clause in ENVIRONMENT DIVISION</b> ASSIGN TO ORGANIZATION ACCESS MODE RECORD KEY ALTERNATE RECORD KEY FILE STATUS Other clauses  <b>FD and 01s for VSAM Files</b>  <b>JCL for VSAM Files</b> DDNAMES  <b>File-Status Checking</b> Typical Codes to Check

# VSAM COBOL Programming *(continued)*

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## Topic Outline

### Procedure Division Verbs for VSAM

- Open Statement
- Read Statement
- Start
- Current Record Pointer
- READ NEXT
- Write
- Rewrite
- Delete
- Close
- Checking VSAM File Status Codes

### SEQUENTIAL vs RANDOM vs DYNAMIC Processing

#### Flow of Logic

- Programming Differences between KSDS, ESDS, and RRDS

#### AIX Processing

#### Additional Processing

- Update ESDS Records
- Update KSDS Records
- Update RRDS Records
- VSAM Examples
  - KSDS Create/ Load Example
  - ESDS Create/ Load Example
  - ESDS Read Example
  - ESDS Update Example
  - ESDS Append Example